



# **COMMONWEALTH of VIRGINIA**

*Department of Health*  
**DIVISION OF SHELLFISH SANITATION**  
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## **HAMPTON ROADS: NANSEMOND RIVER TO ELIZABETH RIVER Growing Area # 064 Cities of Chesapeake, Portsmouth, and Suffolk Shoreline Sanitary Survey**

**Date:** 4 October 2002

**Survey Period:** May 17, 2002 – June 14, 2002

**Total Number of Properties:** 97

**Surveyed By:** T.D. Fearington

### **SECTION A: GENERAL**

This survey area extends from Reference Point 65 at the northwest end of Park Drive at Pig Point to Reference point 66 at the northeast end of Craney Island U.S. Naval Supply Center, including the Hampton Roads shoreline between these two points, Streeter Creek, Hoffer Creek and all of their tributaries.

Topography of this area is characterized by land elevations ranging from mostly marshy along the shorelines of Hampton Roads, Streeter Creek, Hoffer Creek to 15'-20' along the western and southern inland portions.

Population density within the area varies from moderate to heavy with the heaviest concentrations occurring in the Portsmouth communities of Edgefield, Merryfield, Twin Pines, Windy Pines, Southampton, Windmill Shores, Willow Breeze, and Armistead Forest. These are single and multiple family dwelling served by the HRSD sewerage system and thus not surveyed. The Portsmouth City Landfill and the Craney Island Dredge Material Management area were the only properties surveyed within the city of Portsmouth. In the city of Suffolk, only the communities of Holly Acres (also known as Respass Beach) and several scattered properties along Interstate 664 are served by onsite sewage disposal systems. All properties located in the city of Chesapeake were single or multiple family dwellings served by the HRSD sewerage system and therefore were not inspected.

The economy is dependent upon light industry, general local commerce and services, and various military installations in the surrounding parts of the Hampton Roads area.

Meteorological data indicated that the area received 0.43" of rain May 17-31 and 3.75" June 1-14 for a total rainfall 4.18" for the survey period.

Residential and commercial development continues to expand within the watershed of this shellfish growing area. The high-density subdivisions located along route 623 (Respass Beach Road) which were under construction during the previous 1995 survey have been completed. These include the communities of Burbage Lake Village, Burbage Landing, Bristol Shores,

Castlewood Village, Glenrose, and Scottsfield. Also an elementary school has been constructed in the area. All are connected to the HRSD sewerage system with treatment at the Nansemond River Treatment Facility.

Since the previous 1995 survey substantial commercial growth has occurred near the College Drive-Interstate 664 intersection. Wal-Mart, Sysco Foods (also a certified shellfish reshipper), Food Lion shopping plaza, various fast food retailers, and Bridgeway Commerce Park (commercial office space) have been constructed and occupied. All are connected to the HRSD system.

Copies of bacteriological, hydrographical, and shellfish closure data are available at the area field office for review. Copies of the current condemnation notices and maps are available via the internet at <http://www.vdh.virginia.gov/oehs/shellfish/>.

Information in this report is gathered by and primarily for use of the Division of Shellfish Sanitation, Virginia Department of Health, in order to fulfill its responsibilities of shellfish growing area supervision and classification. However, the data are made available to various agencies participating in shellfish program coordinated activities or other interested parties.

Report copies are provided to the local health department for corrective action of deficiencies listed on the summary page in Section B.2., and to the Department of Environmental Quality for possible action at properties listed on the summary page in Sections B.1., C.1., and C.2.

This report listed only those properties which have a sanitary deficiency or have other environmental significance. Individual field forms with full information on the properties listed in this report are on file in the Richmond Office of the Division of Shellfish Sanitation and are available for reference until superseded by subsequent resurvey of the area.

## **SECTION B: SEWAGE POLLUTION SOURCES**

### **SEWAGE TREATMENT FACILITIES**

1. ***DIRECT*** - Nansemond River Waste Water Treatment Plant, 6900 College Drive, Suffolk 23435. Owner: Hampton Roads Sanitation District, 1436 Air Rail Avenue, Virginia Beach 23455. Has VPDES permit #VA0081299 from DEQ/TRO. Design flow of 30 MGD with discharge to Hampton Roads. Treatment consists of comminution, primary sedimentation, anaerobic digestion, activated sludge, secondary sedimentation, chlorination and dechlorination. A copy of the most recent inspection report of this facility is available from the Division of Shellfish Sanitation.

### **ON-SITE SEWAGE DEFICIENCIES**

3. **CONTRIBUTES POLLUTION** - Location: 5205 Ellen Street, Suffolk 23435. Dwelling-white frame 1 story with black shutters. 2 persons. Effluent erupting from septic tank onto ground surface. Sanitary Notice issued 5-31-02 to field # 71.

### **POTENTIAL POLLUTION**

-None-

## SECTION C: NON-SEWAGE POLLUTION SOURCES

### INDUSTRIAL WASTES

2. Virginia Department of Transportation, Frederick Area Headquarters, 6904 Armistead Avenue, Suffolk 23433. VDOT road maintenance shop for Monitor Merrimac Bridge-Tunnel and I-664. Sedimentation pond receives drainage from lot where road maintenance equipment and road chemicals are stored with overflow to nearby marsh. Has VPDES permit # VA0080179 from the Department of Environmental Quality, Water Regional Office.

### SOLID WASTE DUMPSITES

4. ***DIRECT*** – Craney Island Dredge Material Management Area, 4599 River Shore Road, Portsmouth. Owner: U. S. Army Corps of Engineers, 803 Front Street, Norfolk 23507. An approximately 2 square mile bermed area receives dredge spoil from various sites in the Hampton Roads waterway. The bermed area is divided into 3 separate cells, each with 2 spillways on the western side. Facility is currently at approximately 65% capacity.
5. Portsmouth Sanitary Landfill – Craney Island, River Shore Road and Hedge Row Lane, Portsmouth. Owner: U.S. Navy. This site is currently owned by the Navy and rented by the city of Portsmouth. The landfill receives only concrete, tree limbs, yard debris, and some construction debris from city trucks or businesses under city contract. Refuse is compacted and covered with soil daily. Facility has an estimated usable life through 2013.

## SECTION D: BOATING ACTIVITY

### MARINAS

-None-

### OTHER PLACES WHERE BOATS ARE MOORED

-None-

### UNDER SURVEILLANCE

-None-

## SECTION E: CONTRIBUTES ANIMAL POLLUTION

-None-

## SUMMARY

Area # 064

Hampton Roads: Nansemond River to Elizabeth River

4 October 2002

### SECTION B: SEWAGE POLLUTION SOURCES

#### 1. SEWAGE TREATMENT FACILITIES

1 – DIRECT – # 1

0 – INDIRECT – None

1 – B.1. TOTAL

#### 2. ON-SITE SEWAGE DEFICIENCIES

0 – CONTRIBUTES POLLUTION, DIRECT – None

1 – CONTRIBUTES POLLUTION, INDIRECT – # 3

0 – CP (Kitchen or Laundry Wastes), DIRECT – None

0 – CP (Kitchen or Laundry Wastes), INDIRECT – None

0 – NO FACILITIES, DIRECT – None

0 – NO FACILITIES, INDIRECT – None

1 – B.2. TOTAL

#### 3. POTENTIAL POLLUTION

0 – POTENTIAL POLLUTION – None

### SECTION C: NON-SEWAGE WASTE SITES

#### 1. INDUSTRIAL WASTE SITES

0 – DIRECT – None

1 – INDIRECT – # 2

1 – C.1. TOTAL

#### 2. SOLID WASTE DUMPSITES

1 – DIRECT – # 4

1 – INDIRECT – # 5

2 – C.2. TOTAL

### SECTION D: BOATING ACTIVITY

0 – MARINAS – None

0 – OTHER PLACES WHERE BOATS ARE MOORED – None

0 – UNDER SURVEILLANCE – None

0 – D. TOTAL

### SECTION E: CONTRIBUTES ANIMAL POLLUTION

0 – DIRECT – None

0 – INDIRECT – None

0 – E. TOTAL



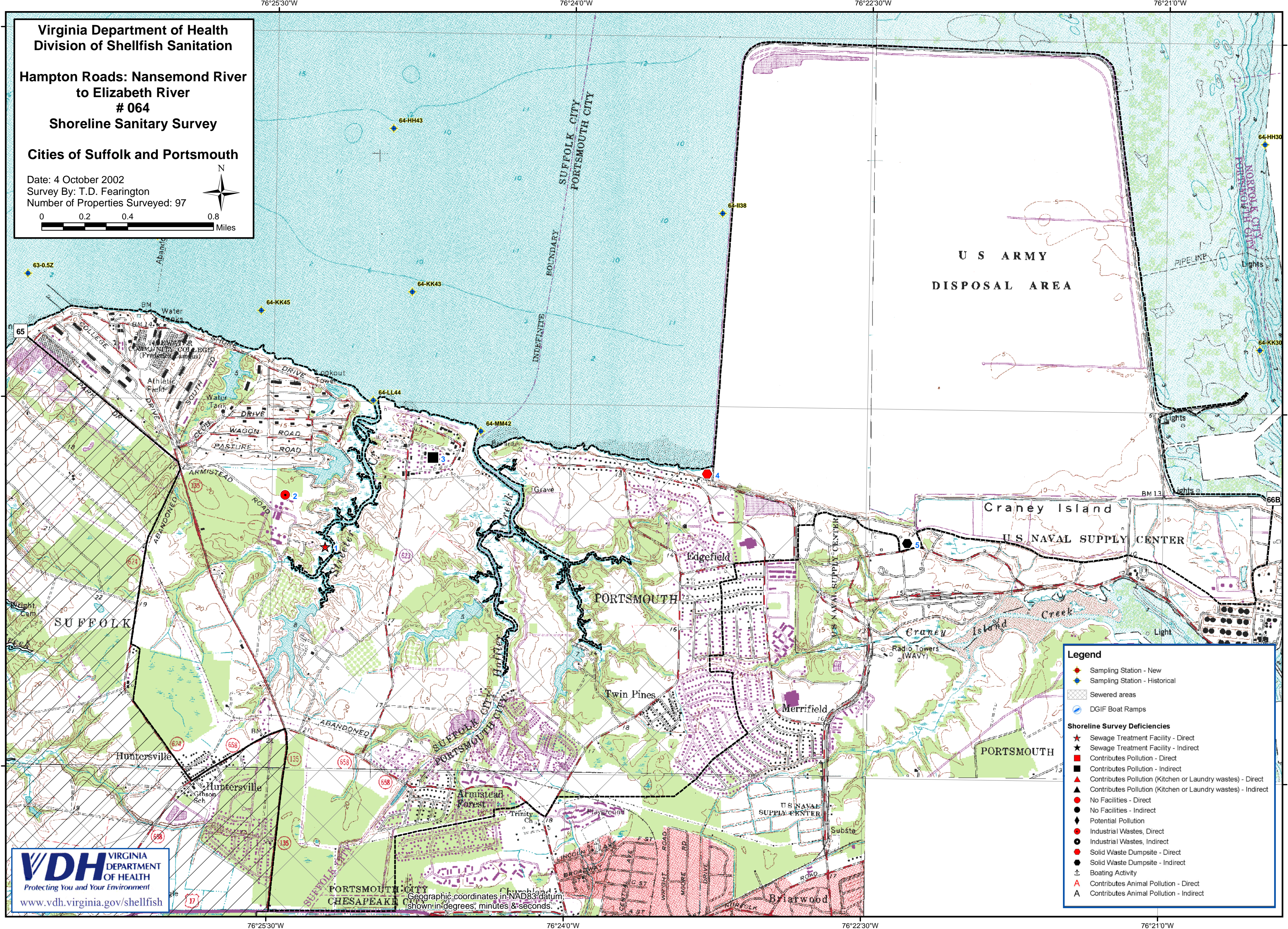
Virginia Department of Health  
Division of Shellfish Sanitation

Hampton Roads: Nansemond River  
to Elizabeth River  
# 064  
Shoreline Sanitary Survey

Cities of Suffolk and Portsmouth

Date: 4 October 2002  
Survey By: T.D. Fearington  
Number of Properties Surveyed: 97

0 0.2 0.4 0.8  
Miles



**Legend**

- Sampling Station - New (red diamond)
- Sampling Station - Historical (blue diamond)
- Sewered areas (hatched pattern)
- DGIF Boat Ramps (blue circle with 'B')

**Shoreline Survey Deficiencies**

- Sewage Treatment Facility - Direct (red star)
- Sewage Treatment Facility - Indirect (black star)
- Contributes Pollution - Direct (red square)
- Contributes Pollution - Indirect (black square)
- Contributes Pollution (Kitchen or Laundry wastes) - Direct (red triangle)
- Contributes Pollution (Kitchen or Laundry wastes) - Indirect (black triangle)
- No Facilities - Direct (red circle)
- No Facilities - Indirect (black circle)
- Potential Pollution (black diamond)
- Industrial Wastes, Direct (red circle with dot)
- Industrial Wastes, Indirect (black circle with dot)
- Solid Waste Dumpsite - Direct (red circle with cross)
- Solid Waste Dumpsite - Indirect (black circle with cross)
- Boating Activity (blue circle with 'B')
- Contributes Animal Pollution - Direct (red triangle with dot)
- Contributes Animal Pollution - Indirect (black triangle with dot)